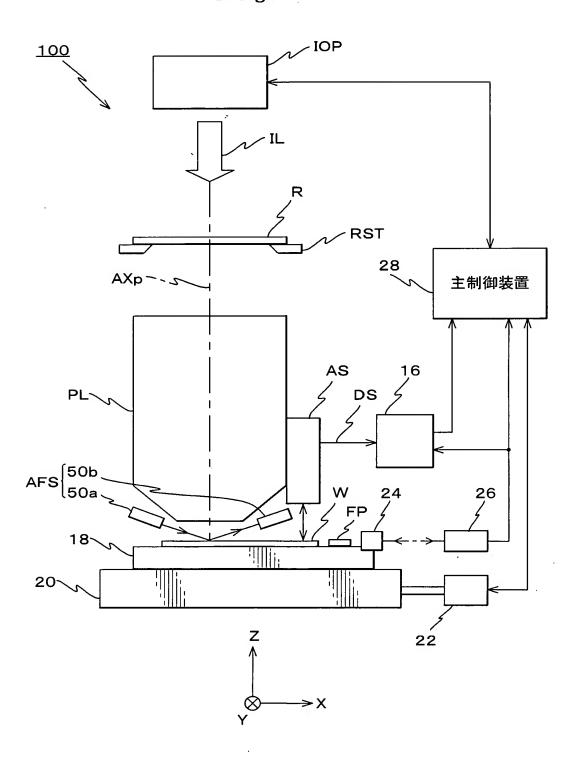
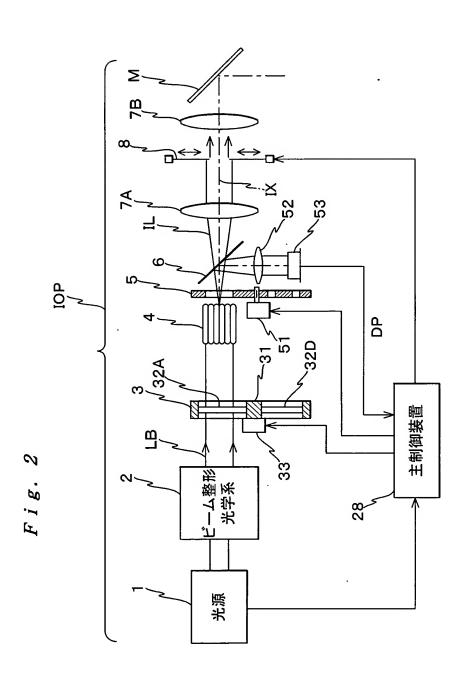
OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET 1 OF 32

Fig. 1

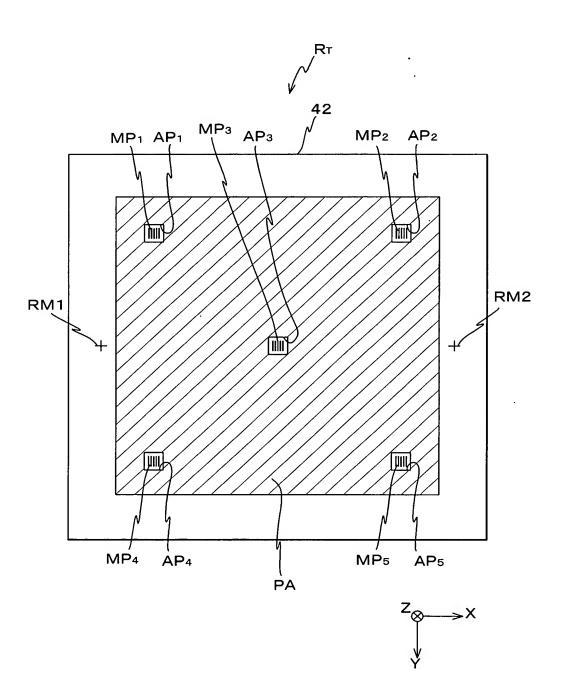


OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET 2 OF 32



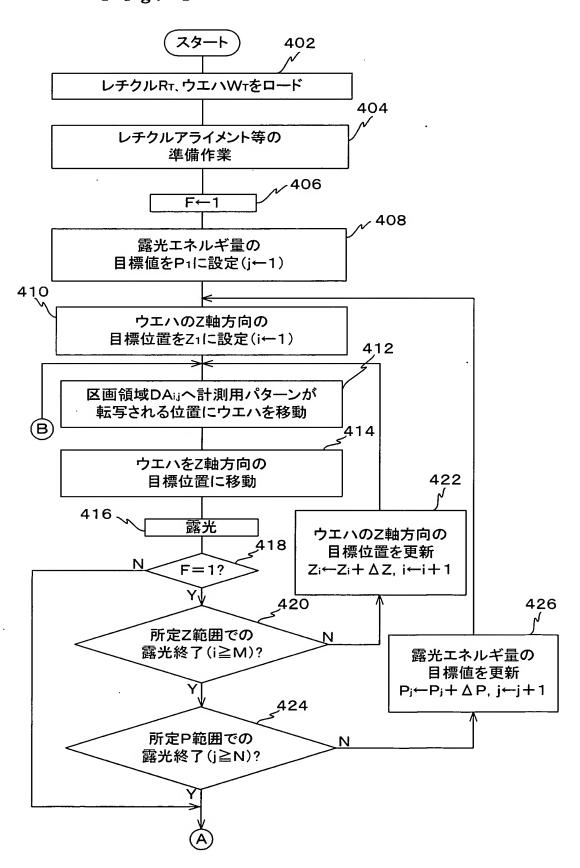
OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>3</u> OF <u>32</u>

Fig. 3



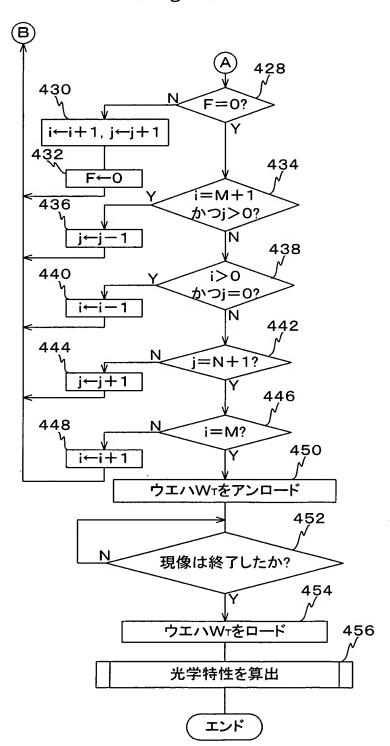
OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>4</u> OF <u>32</u>

Fig. 4



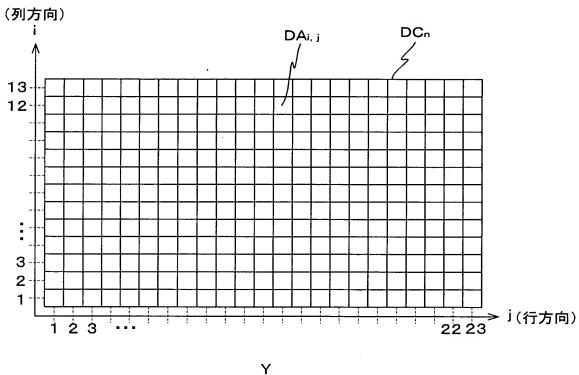
OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>5</u> OF <u>32</u>

Fig. 5



OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT ENV: Kazuyuki MIYASHITA et al SHEET <u>6</u> OF <u>32</u>

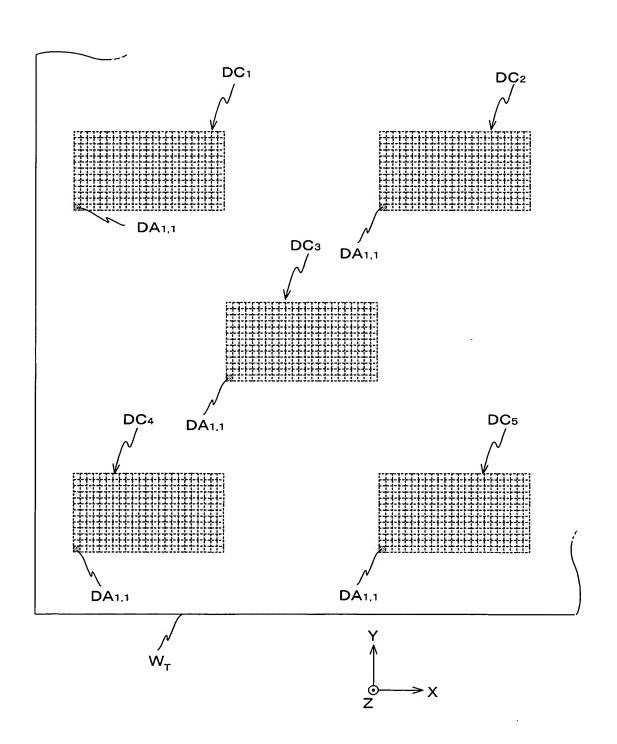
Fig. 6





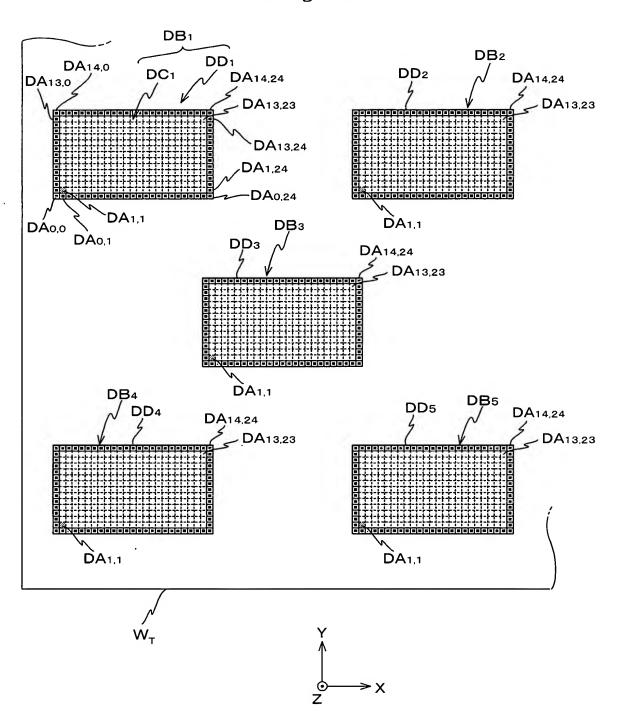
OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET 7_OF 32

Fig. 7



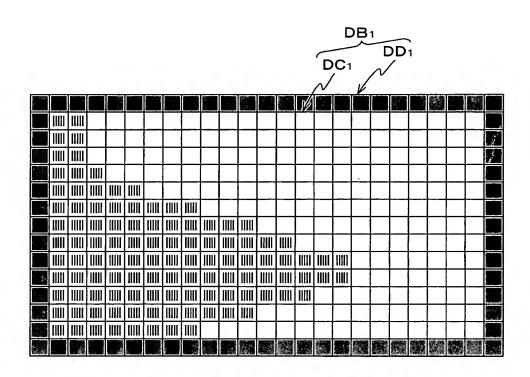
OBLON, SPIVAK, ET AL
DOCKET#: 245258US90 CONT
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SHEET 8 OF 32

Fig. 8



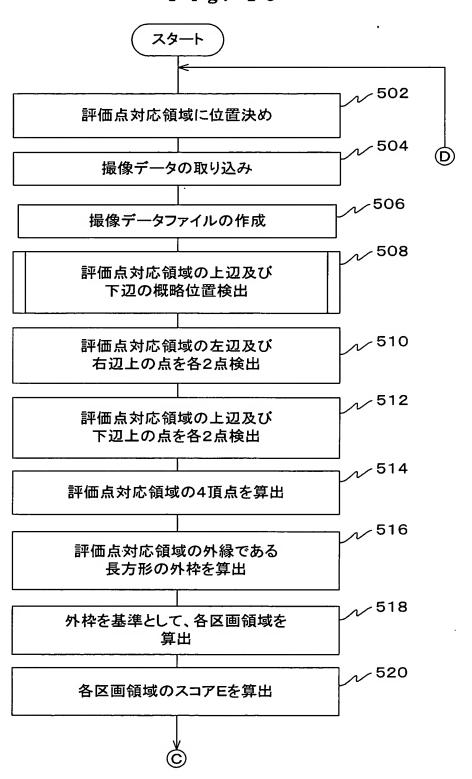
OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>9</u> OF <u>32</u>

Fig. 9



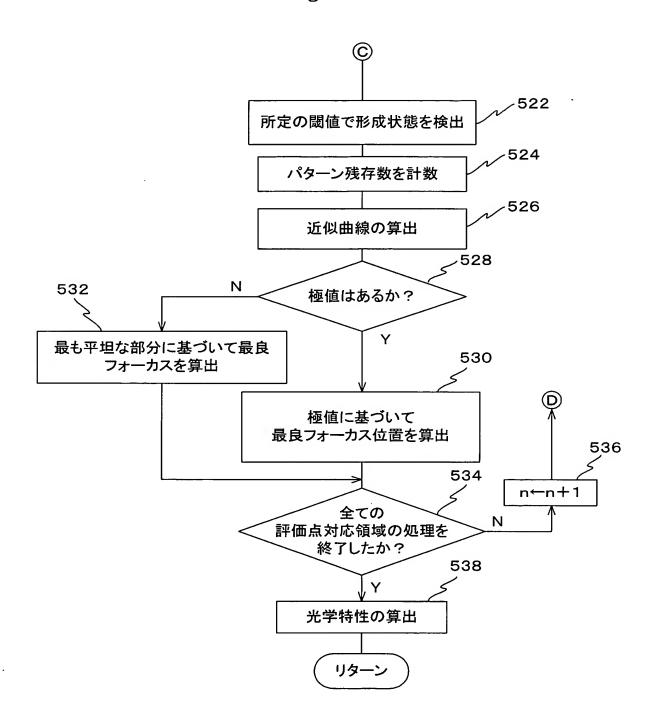
OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>10</u> OF <u>32</u>

Fig. 10



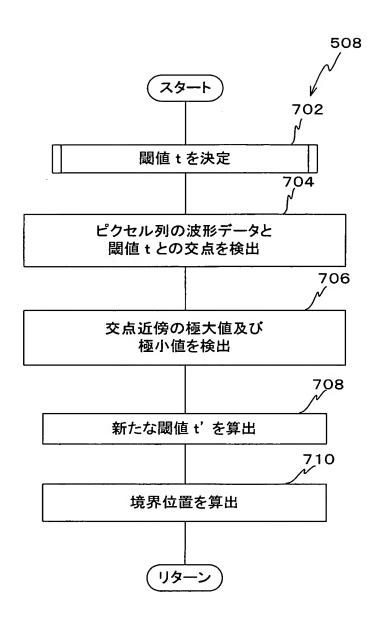
OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET 11 OF 32

Fig. 11



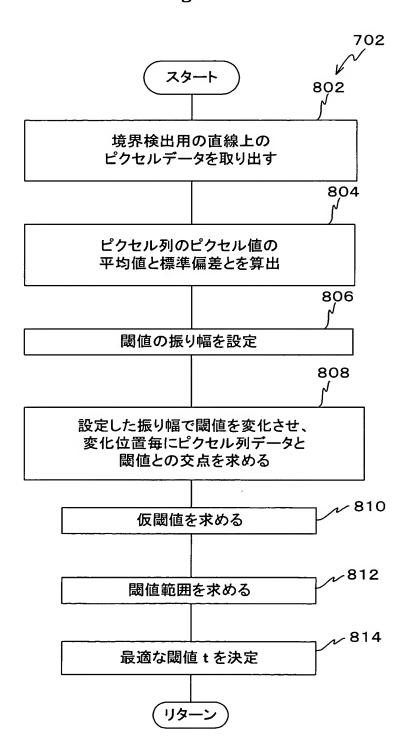
OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET 12 OF 32

Fig. 12



OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET 13 OF 32

Fig. 13



OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET 14 OF 32

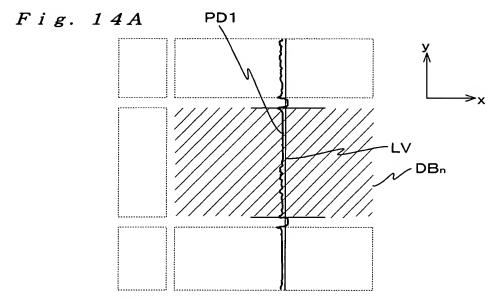


Fig. 14B

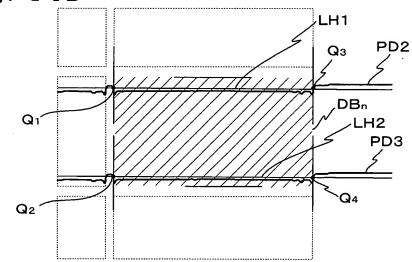
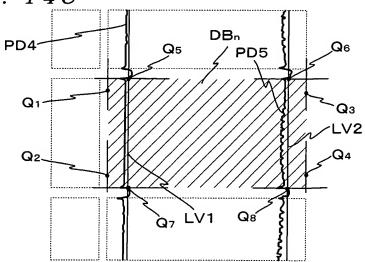


Fig. 14C



OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>15</u> OF <u>32</u>

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Fig. 15A

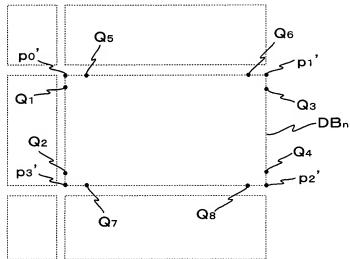


Fig. 15B

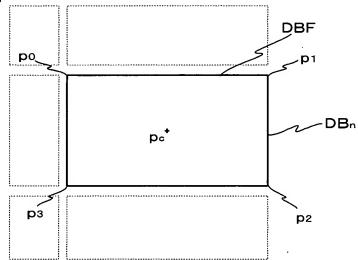
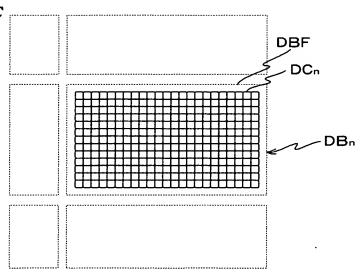


Fig. 15C



OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>16</u> OF <u>32</u>

Fig. 16

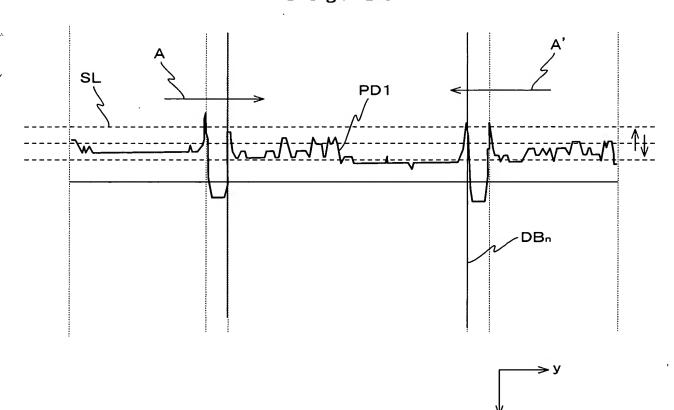
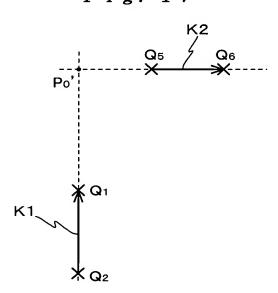


Fig. 17



OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>17</u> OF <u>32</u>

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Fig. 18

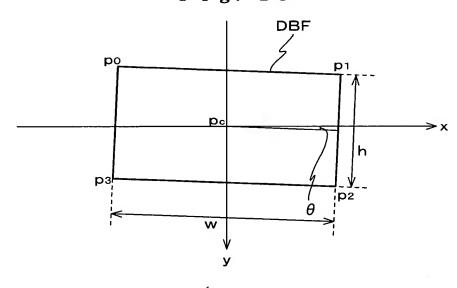
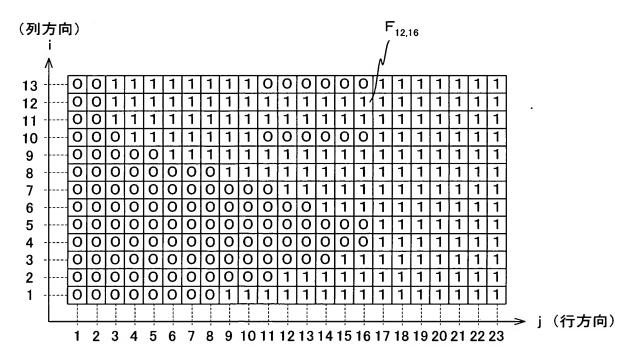


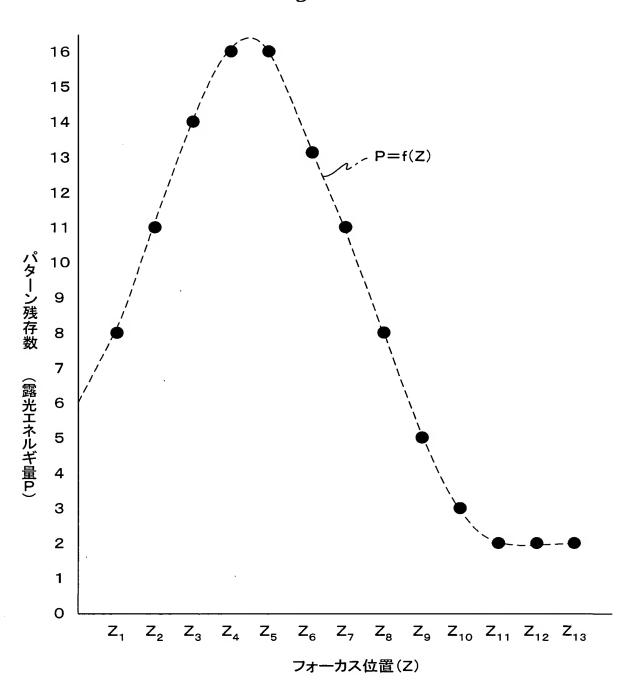
Fig. 19





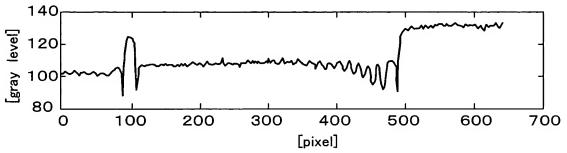
OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>18</u> OF <u>32</u>

Fig. 20



OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET 19 OF 32

Fig. 21A X direction 140



2 1 B Fig.

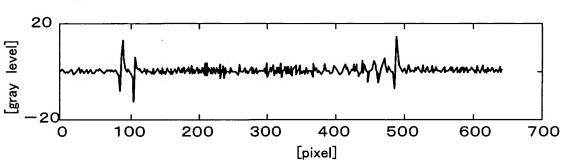
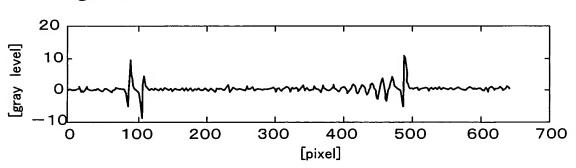
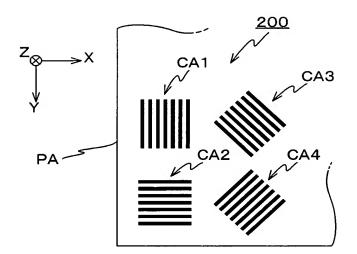


Fig. 21C



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Fig. 22



OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET 21 OF 32

21/32 Fig. 23 902 開始 レチクルRT'、ウエハWTをロード 904 レチクルアライメント等の準備動作 908 露光エネルギ量の 目標値をP1に設定(j←1) 910 ウエハのZ軸方向の 目標位置をZ1に設定(i←1) 912 区画領域DAijへ計測用パターンが 転写される位置にウエハを移動 914 ウエハをZ軸方向の 目標位置に移動 916, 922 露光 920 ウエハのZ軸方向の 所定Z範囲での Ν 目標位置を更新 露光終了(i≧M)? $Z_i \leftarrow Z_i + \Delta Z$, $i \leftarrow i + 1$ Υ 926 924 露光エネルギ量の 所定P範囲での Ν 目標値を更新 露光終了(j≧N)? $P_{j}\leftarrow P_{j}+\Delta P, j\leftarrow j+1$ 950~ ウエハWrをアンロード 952 現像は 終了したか?

954

956

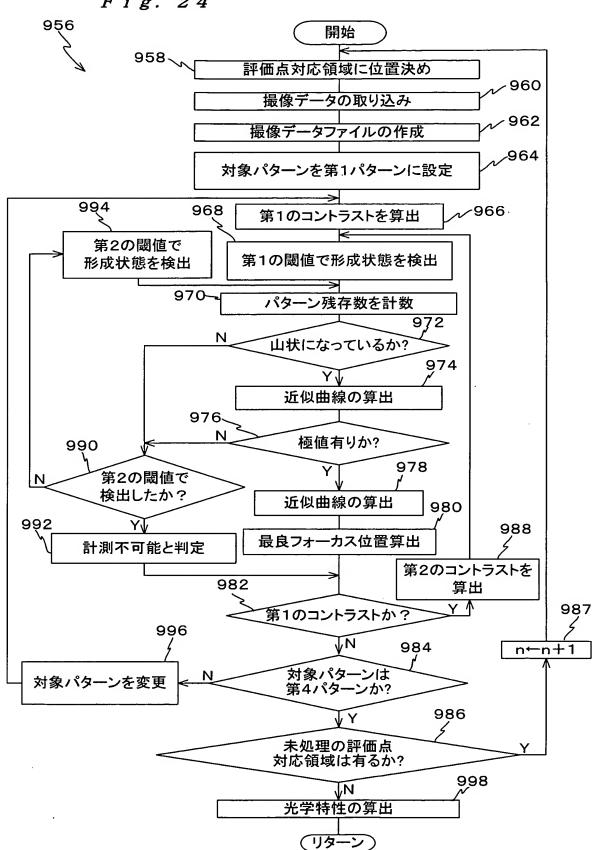
ウエハWァをロード

光学特性を算出

終了

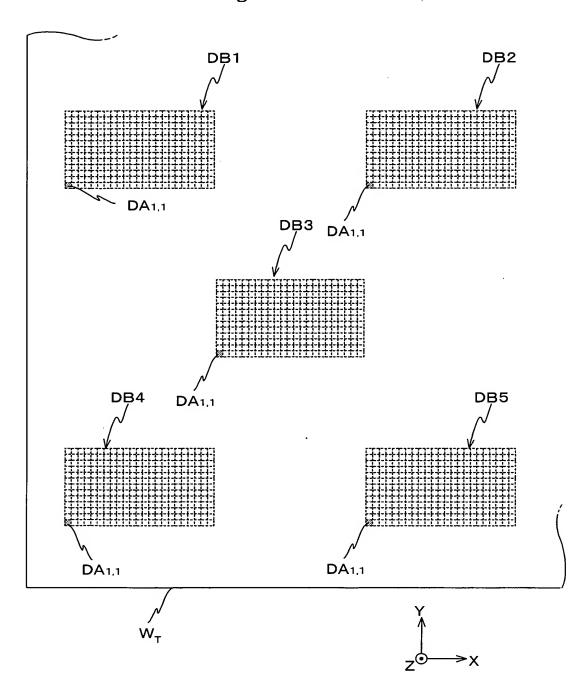
OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>22</u> OF <u>32</u>

Fig. 24



OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT FNV: Kazuyuki MIYASHITA et al SHEET 23 OF 32

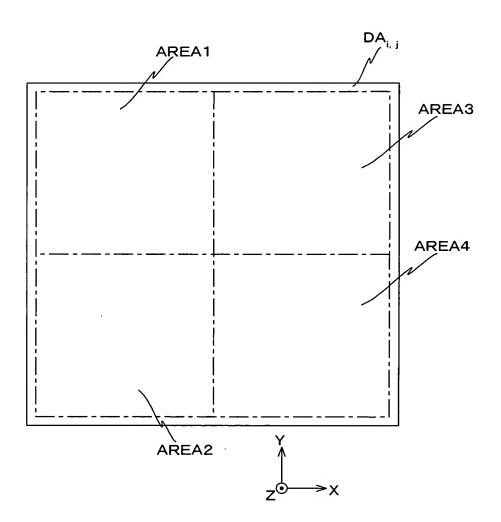
Fig. 25



OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>24</u> OF <u>32</u>

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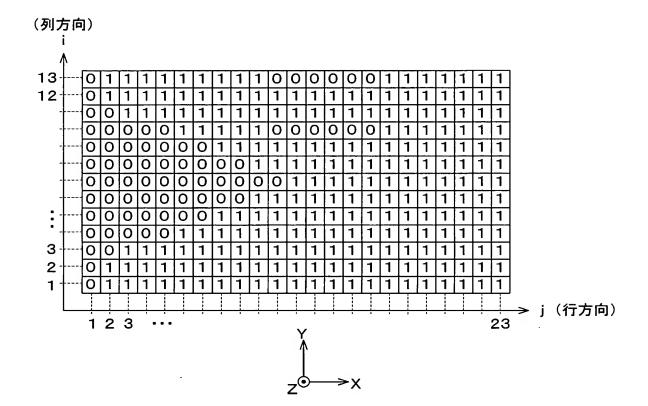
Fig. 26



ابها

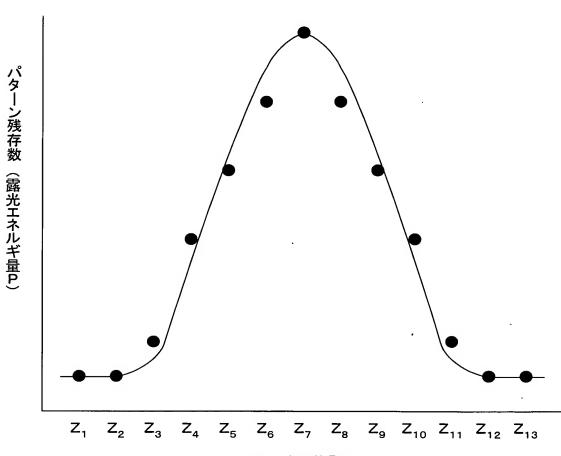
OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>25</u> OF <u>32</u>

Fig. 27



OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>26</u> OF <u>32</u>

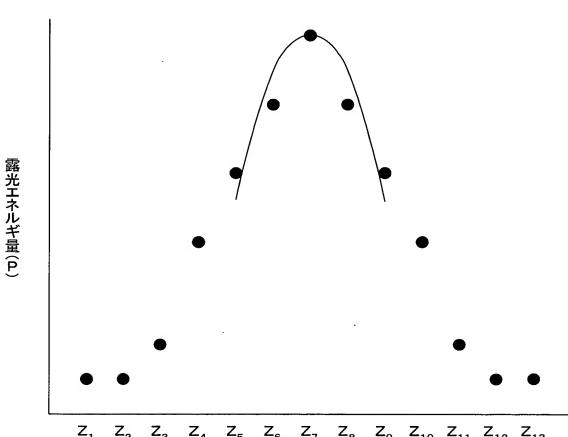
Fig. 28



フォーカス位置(Z)

OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>27</u> OF <u>32</u>

Fig. 29



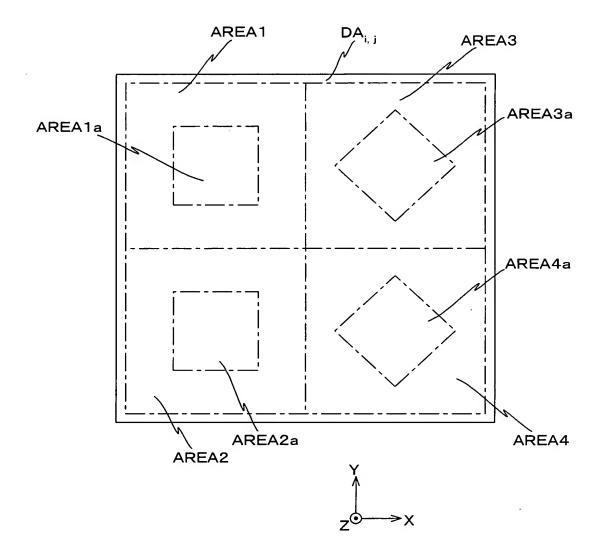
 Z_1 Z_2 Z_3 Z_4 Z_5 Z_6 Z_7 Z_8 Z_9 Z_{10} Z_{11} Z_{12} Z_{13} フォーカス位置(Z)

OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET <u>28</u> OF <u>32</u>

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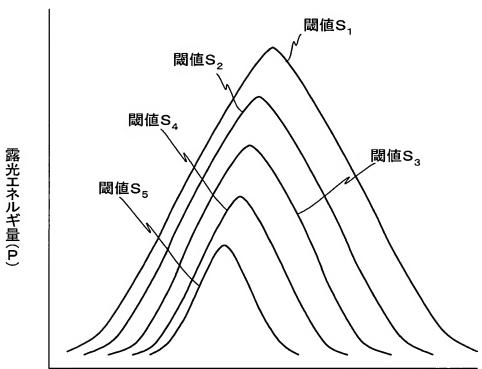
Fig. 30

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OBLON, SPIVAK, ET AL **DOCKET#: 245258US90 CONT** · INV: Kazuyuki MIYASHITA et al SHEET <u>29</u> OF <u>32</u>

Fig. 31



フォーカス位置(Z)

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Fig. 32

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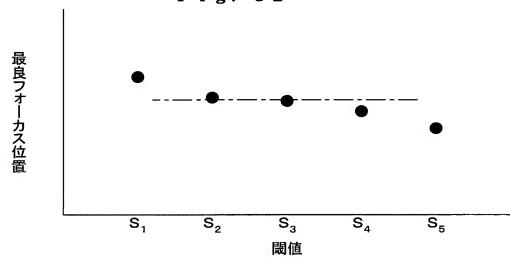
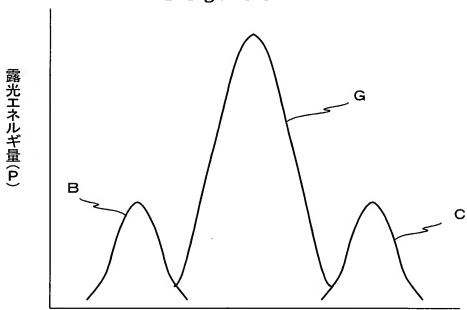


Fig. 33

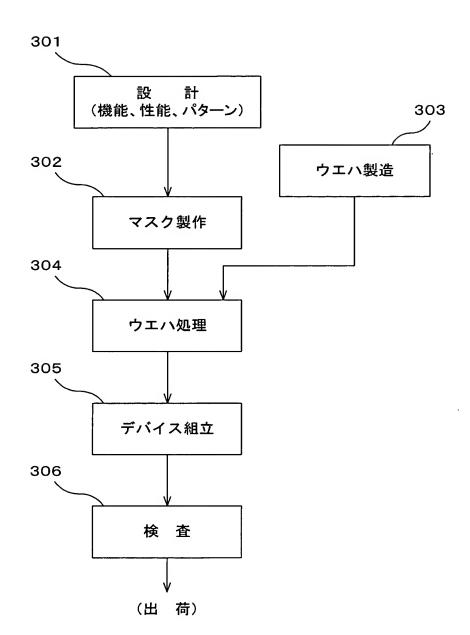


フォーカス位置(Z)

OBLON, SPIVAK, ET AL DOCKET#: 245258US90 CONT INV: Kazuyuki MIYASHITA et al SHEET 31_ OF 32

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Fig. 34

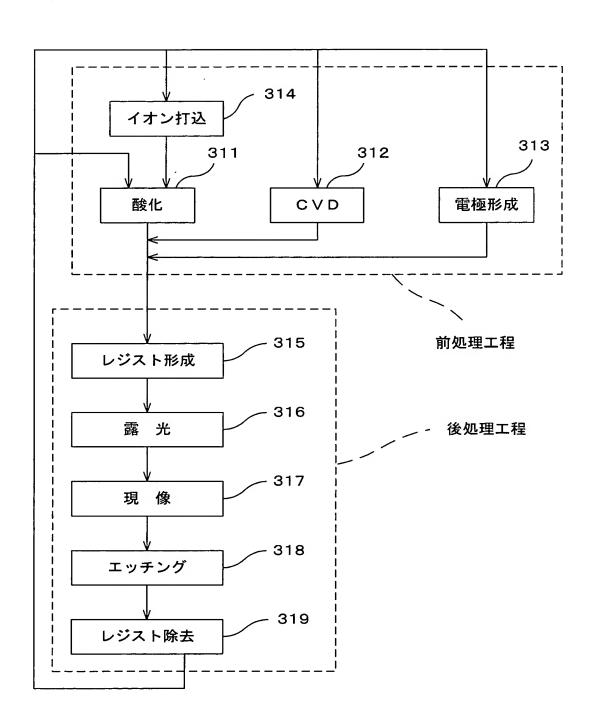


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Fig. 35



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